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TRANSMITTAL LETTER TO THE UNITED STATES	148/291								
DESIGNATED/ELECTED OFFICE (DO/EO/US)									
CONCERNING A FILING UNDER 35 U.S.C. 371	U.S. APPLICATION NO. (If known, see 37 CFR 1.5)								
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE	10/04/200								
PCT/GB99/02439 August 9, 1999	PRIORITY DATE CLAIMED August 9, 1999								
TITLE OF INVENTION FINGER PROTECTOR DEVICE									
APPLICANT(S) FOR DO/EO/US GARVEY, Frank Joseph									
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the follo	wing items and other information:								
1. This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.									
2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under	35 U.S.C. 371.								
3. This is an express request to promptly begin national examination procedures (35 U.S.)	.C. 371(f)).								
4. The US has been elected by the expiration of 19 months from the priority date (PCT A	article 31).								
5. X A copy of the International Application as filed (35 U.S.C. 371(c)(2))	,								
a is attached hereto (required only if not communicated by the Internat	tional Bureau).								
b. x has been communicated by the International Bureau.									
c. is not required, as the application was filed in the United States Recei									
6. An English language translation of the International Application as filed (35 U									
Amendments to the claims of the international Application under PC1 Article									
a are attached hereto (required only if not communicated by the International Bureau b have been communicated by the International Bureau	ational Bureau).								
b. have been communicated by the International Bureau.c. have not been made; however, the time limit for making such amenda	words have NOT and the								
d. A have not been made and will not be made.	nents has NOT expired.								
	Amticle 10 (25 H.C.C. 271(-)(2))								
8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. An eath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))									
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An English language translation of the annexes to the International Preliminary PCT Article 36 (35 U.S.C. 371(c)(5)).	y Examination Report under								
Items 11 to 16 below concern document(s) or information included:									
11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98.									
12. An assignment document for recording. A separate cover sheet in compliance	with 37 CFR 3.28 and 3.31 is included.								
13. X A FIRST preliminary amendment.									
A SECOND or SUBSEQUENT preliminary amendment.									
14. A substitute specification.									
15. A change of power of attorney and/or address letter.	15. A change of power of attorney and/or address letter.								
16. X Other items or information:	16. X Other items or information:								
An English language copy of the International Search Report prepared by the European Patent Office An Application Data Sheet									
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U.S. APPLICATION NO. (I k	14-9°2°5 6	INTERNATIONAL APPLICATION NO. PCT/GB99/0243	ATTORNEY'S DOCKET NUMBER 148/291					
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BASIC NATION	owing fees are submitted AL FEE (37 CFR 1.492	Ì						
Neither intern	ational preliminary exan							
	nal search fee (37 CFR in al Search Report not pro	\$1000.00						
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	· ·	5(a)(2)) paid to USPTO						
International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4)\$690.00								
	International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) \$100.00							
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		ath or declaration later than	30	\$	130			
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE					
Total claims	16 - 20	= 0	X \$18.00	\$	0			
Independent claims	1 -3:		X \$80.00	\$	0			
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		L OF ABOVE CALCULAT		\$	1,300			
Applicant c are reduced		is. See 37 CFR 1.27. The fees i	ndicated above	\$	650			
Ÿ		SUBT	TOTAL =	\$	650			
Processing fee of months from the	\$130.00 for furnishing earliest claimed priority	the English translation later than date (37 CFR 1.492(f)).	20 30 +	\$	0			
	•	TOTAL NATION		\$	650			
		at (37 CFR 1.21(h)). The assignment (37 CFR 3.28, 3.31). \$40.00 pe		\$	0			
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c. X The Co	mmissioner is hereby a	thorized to charge any additional	fees which may b	e requ	uired, or credit	any		
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NOTE: When	NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.							
1.137(a) 01 (a))) mast be med and gr	untou to restore the approximan	o ponding status		. 1	\bigcirc		
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2180 Two	First Union Center		NAME					
Charlotte,	North Carolina 28282				37,532			
Tel: 704/3	75-9249	REGISTE	RATION	NUMBER				
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:

GARVEY

INTERNATIONAL

APPLICATION NO.:

PCT/GB99/02439

INTERNATIONAL

FILING DATE:

August 9, 1999

FOR:

FINGER PROTECTOR DEVICE

BOX PCT

Assistant Commissioner for Patents

Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

After the assignment of a serial number and prior to the initial examination of the above-identified application, please make the following amendments:

IN THE SPECIFICATION:

Amend the specification by inserting before the first line on page 1:

--This application is a national stage application, according to Chapter II of the Patent Cooperation Treaty. This application claims the priority date of August 9, 1999 for International Patent Application No. PCT/GB99/02439.--

IN THE CLAIMS:

Please cancel claims 1-13 and enter new claims 14 -25, as follows:

- - 14. A finger protector device comprising first, second and third members, the second member being connected between the first and third members by flexible means, the first member is arranged, in use, to be mounted to a first surface and the third APPLICANT: GARVEY, Frank Joseph INT'L. APP. NO.: PCT/GB99/02439 Page 2

member is arranged, in use, to be mounted to a second surface, in which relative movement of the first and second surfaces is possible.

- 15. A finger protector device according to claim 14, in which the flexible means provides a pivotal connection.
- 16. A finger protector device according to claim 14, in which the relative movement of the first and second surfaces creates or close a gap between the surfaces.
- 17. A finger protector device according to claim 14, in which the first surface is a door.
- 18. A finger protector device according to claim 14, in which the second surface is a door frame.
- 19. A finger protector device according to claim 14, in which the first, second and third members are elongate members.
- 20. A finger protector device according to claim 14, in which the first member has a mounting portion connected thereto and is connected by flexible means.
- 21. A finger protector device according to claim 14, in which the third member has a mounting portion connected thereto and is connected by flexible means.

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APPLICANT: GARVEY, Frank Joseph INT'L. APP. NO.: PCT/GB99/02439 Page 3

- 22. A finger protector device according to claim 20 or claim 21, in which the or each mounting portion or portions is or are thicker than the first, second and third members.
- 23. A finger protector device according to claim 20 or claim 21, in which the or each mounting portion or portions is attached to a member by a flexible plastics joint which is pre-biased at about 90° relative to the member to which it or they is or are attached.
- 24. A finger protector device according to claim 20 or claim 21, in which the first and second surfaces may have slots mounted thereto in order to engage the mounting portions of the first and third faces respectively.
- 25. A finger protector device according to claim 20 or claim 21, in which the door frame is connected to a first mounting portion which is pivotally connected to the first member which is pivotally connected to the second member which is pivotally connected to a third member which is pivotally connected to a second mounting portion which is connected to a door, in which the first, second and third members and the first and second mounting portions are all elongate members, and in which the finger protector device has a substantially uniform cross-section along its length.- -

<u>REMARKS</u>

Pursuant to 37 C.F.R. §1.121(c)(ii), a marked-up copy of the claim amendments is included with this Preliminary Amendment and labeled as "Exhibit A". It is believed that

APPLICANT: GARVEY, Frank Joseph INTL. APP. NO.: PCT/GB99/02439 Page 4

this application is now in condition for allowance. Such action at an early date is respectfully requested.

Respectfully submitted,

Attorney for Applicant Reg. No. 37,532

Jeffrey J. Schwartz ADAMS, SCHWARTZ & EVANS, P.A. 2180 TWO FIRST UNION CENTER CHARLOTTE, N.C. 28282

TEL: (704) 375-9249 FAX: (704) 375-0729

Email: jjs@adamspat.com Our File No. 148/291

EXHIBIT A

AMENDED CLAIMS - MARKED-UP COPY (U.S. National Phase of International Application No. PCT/GB99/02439)

Please cancel claims 1-13.

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Field of the Invention

The invention relates to finger protector devices, especially (but not limited to) finger protector devices for door hinges.

Background to the Invention

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Hinge mechanisms for doors and similar openings are generally arranged such that on opening the door a gap is formed between the internal face of the door and the adjacent door frame. On closing the door this gap is inevitably reduced until the door is closed. during closing any objects protruding into the gap are squeezed or trapped. This is a frequent cause of accidents whereby fingers are trapped between the door and adjacent Such accidents can be painful and can result door frame. These accidents can be especially in serious injuries. children. for young commonplace and distressing Furthermore, the use of doors comprising automatic closing means, such as springs, can result in high closing forces.

It is an aim of the present invention to overcome or obviate at least one problem associated with the prior art, whether referred to herein or otherwise.

Summary of the Invention

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According to the present invention there is provided a finger protector device comprising first, second and third members, the second member being connected between the

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17.

The door frame may be connected to a first mounting portion which is pivotally connected to the first member which is pivotally connected to the second member which is pivotally connected to a third member which is pivotally connected to a second mounting portion which is connected to a door, in which the first, second and third members and the first and second mounting portions are all elongate members, and in which the finger protector device has a substantially uniform cross-section along its length.

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Brief Description of the Drawings

The present invention will now be described by way of example only, with reference to the drawings that follow in which:

Figure 1 is a cross-section of a safety device for a door.

20 Figure 2 is a cross-section of a door in a closed position with a safety device attached.

Figure 3 is a cross-section of a door in a partially open position with a safety device attached.

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Figure 4 is a cross-section of a door in an open position with a safety device attached.

Description of the Preferred Embodiments

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As shown in Figure 1, the cross-section of the safety device 10 is approximately a right angled triangle. However, prior to formation the safety device 10 is

first and third members by flexible means, the first member is arranged, in use, to be mounted to a first surface and the third member is arranged, in use, to be mounted to a second surface, in which relative movement of the first and second surfaces is possible.

The flexible means may provide a pivotal connection.

The relative movement of the first and second surfaces

10 may create or close a gap between the surfaces.

The first surface may be a door. Suitably the second surface is a door frame.

The first, second and third members may be elongate members.

The first member may have a mounting portion connected thereto and suitably connected by flexible means. The third member may have a mounting portion connected thereto and suitably connected by flexible means. The or each mounting portion or portions may be thicker than the first, second and third members. This assists in fixing the device to a door or frame. The or each mounting portion or portions may be attached to a member by a flexible plastics joint which is pre-biased at about 90° relative to the member to which it or they is or are attached.

The first and second surfaces may have slots mounted thereto in order to engage the mounting portions of the first and third faces respectively.

substantially planar. The sides of the safety device 10 are formed from elongate strips of a suitable plastics material. Hinge sections 22, 24 connect the first side 16 to the second side 14 and the third side 12 to the second side 14 respectively. The hinge sections 22, 24 are formed from a flexible material. The use of flexible hinge sections reduce the opportunity of any pinching action which may result from mechanical hinge sections.

Connecting portions 18, 20 are provided to mount the safety device 10 to a door 30 and adjacent frame 32 or wall. The connecting portions 18, 20 are connected to the first and third sides 16, 12 by flexible hinge sections 28, 26 respectively. Connecting portions 18, 20 may be made thicker than sides 12, 14, 16 to assist in mounting. To assist in mounting and in the motion of the device, the flexible joints joining connecting portions 18, 20 to sides, 12, 16 respectively may be pre-biased to about 90°.

In order to mount the safety device 10 to a door 30 and adjacent frame 32 slots (not shown) are initially affixed to the door 30 at an inner position and to an adjacent position on the frame 32, as shown in Figure 2. The safety device 10 can then be mounted by securing the connecting portions 18, 20 in the respective slots (not shown).

Alternatively, and as a preferred option with thicker connecting portions 18, 20 holes (not shown) may be provided in the connecting portions to allow for screw fixing.

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Once mounted the connecting portion 18 will move corresponding to the movement of the door 30 whilst the connecting portion 20 will remain affixed to the frame. The flexible hinge sections 22, 24, 26, 28 enable the safety device 10 to reconfigure according to the relative orientation of the door 30 and the frame 32. As shown in Figure 2, when the door 30 is in a closed position the safety device 10 adopts a right angle triangle cross-Approximations of the cross-sections of the safety device 10 with the door 30 in a partially open position and providing a 90° open position are shown in Figure 3 and Figure 4 respectively. It can be seen that at all times during the opening of the door 30 the safety device 10 prevents access to the gap formed between the inner face of the door 30 and the adjacent door frame 32. Therefore, on the subsequent closing of the door 30 there is no opportunity for objects, especially fingers, to be trapped between the door 30 and the frame 32.

The configuration of the safety device 10 also enables the safety device 10 to function during opening angles substantially greater than 90°. The configuration of the safety device 10 also enables the safety device 10 to be mounted on an adjacent frame which is not at a right angle to the door, for example a bevelled frame or a flat frame.

The reader's attention is directed to all papers and documents which are filed concurrently with or previous to this specification in connection with this application and which are open to public inspection with this specification, and the contents of all such papers and documents are incorporated herein by reference.

All of the features disclosed in this specification (including any accompanying claims, abstract and drawings), and/or all of the steps of any method or process so disclosed, may be combined in any combination, except combinations where at least some of such features and/or steps are mutually exclusive.

Each feature disclosed in this specification (including any accompanying claims, abstract and drawings), may be replaced by alternative features serving the same, equivalent or similar purpose, unless expressly stated otherwise. Thus, unless expressly stated otherwise, each feature disclosed is one example only of a generic series of equivalent or similar features.

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The invention is not restricted to the details of the foregoing embodiment(s). The invention extends to any novel one, or any novel combination, of the features disclosed in this specification (including any accompanying claims, abstract and drawings), or to any novel one, or any novel combination, of the steps of any method or process so disclosed.

CLAIMS

- A finger protector device comprising first, second and third members, the second member being connected between the first and third members by flexible means, the first member is arranged, in use, to be mounted to a first surface and the third member is arranged, in use, to be mounted to a second surface, in which relative movement of the first and second surfaces is possible.
 - A finger protector device according to Claim 1, in which the flexible means provides a pivotal connection.

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3. A finger protector device according to Claim 1 or Claim 2, in which the relative movement of the first and second surfaces creates or close a gap between the surfaces.

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- 4. A finger protector device according to any preceding claim, in which the first surface is a door.
- 5. A finger protector device according to any preceding claim, in which the second surface is a door frame.
 - 6. A finger protector device according to any preceding claim, in which the first, second and third members are elongate members.

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7. A finger protector device according to any preceding claim, in which the first member has a mounting

portion connected thereto and is connected by flexible means.

- 8. A finger protector device according to any preceding claim in which the third member has a mounting portion connected thereto and is connected by flexible means.
- A finger protector device according to Claim 7 or Claim 8, in which the or each mounting portion or portions is or are thicker than the first, second and third members.
- 10. A finger protector device according to Claim 7 or Claim 8, in which the or each mounting portion or portions is attached to a member by a flexible plastics joint which is pre-biased at about 90° relative to the member to which it or they is or are attached.
- 20 11. A finger protector device according to Claim 7 or Claim 8, in which the first and second surfaces may have slots mounted thereto in order to engage the mounting portions of the first and third faces respectively.

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12. A finger protector device according to Claim 7 or Claim 8, in which the door frame is connected to a first mounting portion which is pivotally connected to the first member which is pivotally connected to the second member which is pivotally connected to a third member which is pivotally connected to a second mounting portion which is connected to a door, in which the first, second and third members and the

first and second mounting portions are all elongate members, and in which the finger protector device has a substantially uniform cross-section along its length.

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13. A finger protector device substantially as described herein with reference to the drawings that follow.



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PCT

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(71) Applicant (for all designated States except US): FINGER-SHIELD (UK) LIMITED [GB/GB]; The Old School House, Lind Street, Off Cambrain Street, Manchester M40 7ES (GB).

(72) Inventor; and

- (75) Inventor/Applicant (for US only): GARVEY, Frank [GB/GB]; The Old School House, Lind Street, Off Cambrain Street, Manchester M40 7ES (GB).
- (74) Agents: BRANDON, Paul, Laurence et al.; Appleyard Lees, 15 Clare Road, Halifax, West Yorkshire HX1 2HY (GB).

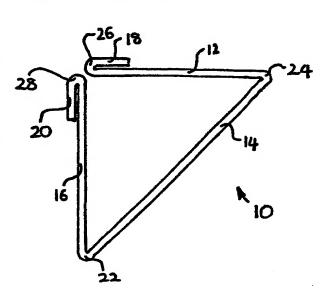
- (81) Designated States (national): AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW.
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Published:

With international search report.

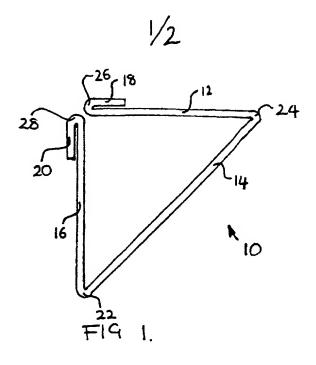
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

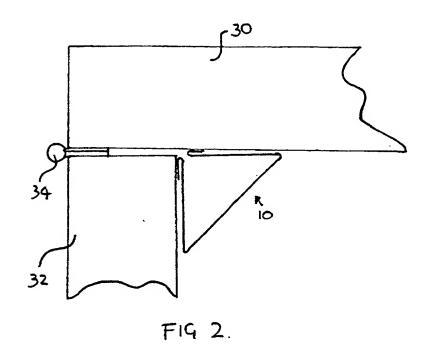
(54) Title: FINGER PROTECTOR DEVICE

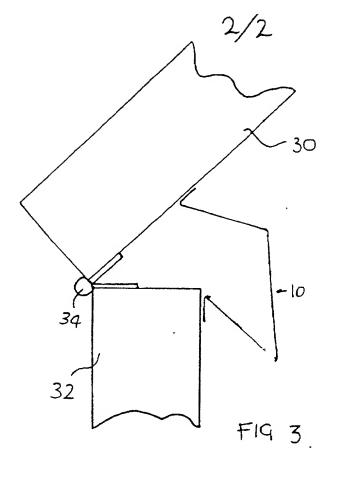


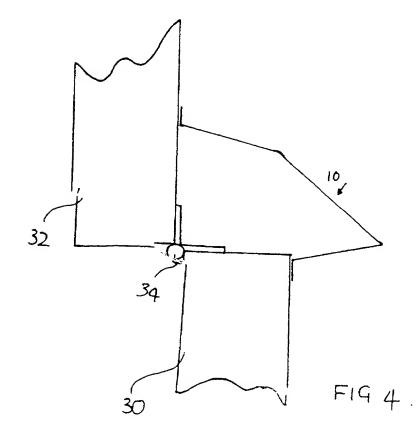
(57) Abstract: The present invention provides finger protector device comprising first (12) second (14) and third (16) members, the second member being connected between the first and third members by flexible means (22, 24), the first member is arranged, in use, to be mounted to a first surface (30) and the third member is arranged, in use, to be mounted to a second surface (32), in which relative movement of the first and second surfaces is possible.

WO 01/11176 A1









PTC/SB/01 (10:01)
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DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

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Declaration
Submitted after Initial

Filing (surcharge (37 CFR 1.16 (e))

	the specification of what is attached her OR was filed on (Miles)
	Application Number
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Attorney Docket Number		nber	GARVEY, Frank Joseph			
	First Named Inventor					
	COMPL	KNOWN				
	Application Number	10/049,256				
	Filing Date					
	Art Unit					
	Examiner Name					

Filing	roquired)	Examiner Name					
As the below named inventor, I hereby decliare that:							
My residence, mailing address, and citi	zenship are as stated below	v next to my name.					
I believe I am the original and first inver	ntor of the subject matter wh	lich is claimed and for which	h a palent is sough	t on the invention entitled:			
FINGER PROTECTOR DEVICE							
		i.					
	(Title of the In-	vention)					
the specification of which	(This or the fit	to more					
is attached hereto							
OR was filed on (MM/DD/YYYY)	08/09/1999	as United States A	pplication Number o	or PCT International			
Application Number PCT/GB99/	02439 and was amende	d on (MM/DD/YYYY) 02	2/08/2002	(ii applicable).			
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.							
I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the fitting date of the prior application and the national or PCT international filing date of the continuation-in-part application.							
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.							
Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Cartified Copy Attached? YES NO			
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Additional foreign application ru	mbers are listed on a suppli	emental priority data shoot	PTC/SB/02B allec	hed herolo:			

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	FINGER PROTECTOR DEVIC	
AUTHORIZATION OF AGENT Group Art Unit		
Examiner Name		
Attorney Docket Number 14	1148/291	
Practitioners at Customer Number 23638 OR Practitioner(s) named below:	Number Race Design Number No. 18 Control of the Con	
Name Registr	ation Number	

Label here Firm or Individual Name Address Address City Zip State Country Telephone I am the: Applicant/Inventor. Assignee of record of the entire Interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96). SIGNATURE of Applicant or Assignee of Record Frank Tosoph Garvey Name Signature NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below. _forms are submitted.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that widtul false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 100: and that such willful false statements may joopardize the validity of the application or any patent issued thereon.							
NAME OF SOLE OR FIRST INVENTOR	: [A petition h	as bee	n filed for this unsig	ned inventor		
Frank Joseph Given Name (first and middle [if any]) Garvey Family Name or Surname 1 /					1 /		
Inventor's Signature	<u> </u>				11/2/2002 Dato		
28 Ryeefoft Road, Strefford CD	Ν.	Manchest	er	England	British		
Residence: City Same as above		State		Country	Citizenship		
Mailing Address							
NAME OF SECOND INVENTOR:	П	State A petition ha	s beer	zip filed for this unsign	Country ned inventor		
Given Name (first and middle [if any]) Family Name or Sumame							
Inventor's Signature					Date		
Residence: City		State		Country	Citizenship		
Mailing Address							

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Additional inventors are being named on the

supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.